



Regulatory Acceptance & Next-Gen Education
#WC12 Canada | #3RsOverTheEdge



WC12 Poster list

Please read [the poster instructions](#) carefully.

Mon., Aug. 28 Human-Centred Biomedical Research

Poster board no.	Abstract no.	Presenting author	Abstract title
B1	#397	Laura Alvarez	Incorporating new approach methodologies into regulatory nonclinical pharmaceutical safety assessment
B2	#570	Catharine Krebs	Considering Xenotransplantation and Other More Viable Solutions to the Organ Shortage
B3	#222	André Bleich	A Pilot Study Predicting Animal-to-Human Translation Using Qualitative Comparative Analysis
B4	#722	Lindsay Marshall	Re-engineering the Research Enterprise
B5	#161	Isiah Mossiah	The Potential of Multi-organ Microphysiological Systems in Drug Development
B6	#245	Shaarika Sarasija	An integrative approach to develop NAMs for use in Alzheimer's disease research
B7	#188	Lisa Burkhardt	Tackling post-transplant lymphoproliferative disease: A cutting-edge platform for Epstein-Barr-virus specific T-cell fighters
B8	#556	Alexandra Damerau	Simulating arthritis in an animal-free in vitro 3D synovial membrane model
B9	#581	Klaudia Grieger	Modulation of T-cell immune response in precision-cut intestinal slices from IBD patients ex vivo
B10	#196	Nobuhiko Kojima	Development of the Type 1 Diabetes Model Islet In Vitro
B11	#684	Britta Anna Kühne	Development of a Predictive Human Stem Cell-Based Neurosphere Model for Neuroinfectiological Studies
B12	#433	Andre Peterson	An alternative to animal models of epilepsy: combining human data with computational modelling.
B13	#552	Moritz Pfeiffenberger	Generation of a human 3D in vitro bone model that mimics glucocorticoid-induced osteoporosis
B14	#681	Moritz Pfeiffenberger	A thorough comparative study of the use of fetal calf sera, human AB sera and human platelet lysate with the focus on the cultivation of mesenchymal stromal cells
B15	#741	Stephanie Rogers	Implementation of a Human Cell-Based Malaria-on-a-Chip Phenotypic Disease Model for Drug Efficacy Evaluation
B16	#427	Daniela Salvatori	A Teratoma in vitro model as an animal-free tool to study pluripotency and malignancy of stem cells
B17	#383	Julie Sanderson	A Human Model of Neurodegeneration – Human Organotypic Retinal Cultures
B18	#173	Gina Smith	An In Vitro Microfluidic Model of the Human Cardiovascular System for use in Pharmaceutical Screening Applications
B19	#426	Alexander Sotra	Colon Epithelium Barrier with Vascularized Crypts to Model Inflammatory Bowel Disease
B20	#65	Valentin Wegner	Testing short-chain fatty acid effects on the efficacy of CAR T cells in a gut-on-chip system
B21	#625	André Bleich	R2N. Animal Replacement for basic research in the field of infectious diseases and inflammation
B22	#375	Prem Chand	Characterization of Hepatic 3D Spheroids Using Multiphoton Fluorescence Microscopy and OMICS
B23	#92	Amber Daniel	A Working Group Supporting Adoption of MPS in Infectious Disease Research
B24	#371	Jelmer Faber	Discovery of Critical Transcription Factors in Anthracycline-Induced Cardiotoxicity
B25	#414	Ya Gong	Optimizing Physical Microenvironment to Maintain Hepatic Stellate Cells in Quiescence for In Vitro Liver Disease Modeling
B26	#158	Maria Grisales	Establishment of a Human-Based In Vitro Model for Synaptic Plasticity
B27	#35	Kwang Mahn-Kim	Cytokine release from organotypic human oral tissue following exposure to oral care products
B28	#111	Leopold Koenig	Microfluidic bone marrow chips as a potential tool for developmental immunotoxicity testing
B29	#410	Michele Regimbald-Krnel	Proteomics in nanomaterial exposure-related cellular toxicity pathway identification

B30	#554	AhmedElmontaser Mergani Mohamed	Staphylococcus aureus infection alters sterol metabolism and induces hypoxia in intestinal organoids
B31	#27	Melanie Ort	A Human Bone/Bone-Marrow-on-a-Chip Approach for in vitro culture of human bone marrow and benchmark against clinical reality
B32	#241	Elijah Petersen	Developing a triculture in vitro human gut model to evaluate methods for micro and nano plastics toxicity testing
B33	#475	Srabani Roychowdhury	Viable Microfluidics Skin Models to Replace Animal Models - Limitations and Complications Inherent with Current Solutions
B34	#594	Maren Schenke	Using Masculinized Brain Organoids to Study the Male Bias in Autism Spectrum Disorder
B35	#73	Christopher Long	Human-on-a-Chip:History,Progress, Promise
B36	#757	Stefano Sorrentino	3D-Bioprinting brain model: new platforms for brain disease modeling and drug screening
B37	#294	Feng Zhang	Pump-less, recirculating platform enables unidirectional perfusion of 3D printed tubular tissues
B38	#760	Bruna Bosquetti	Adaptation of a Reconstituted Human Ocular Epithelium Model (ToxIn Ocular) to an animal-free condition
B39	#60	Patrícia Santos Lopes	Human Erythropoietin pharmaceuticals products potency: an in vitro analytical method implementation
B40	#348	Aline Chary	Using FBS-free media in in vitro cell cultures: Case studies in transitioning and characterizing A549, EA.hy926 and THP-1 immortalized cell lines
B41	#369	Jarrold Bailey	Fostering Awareness, Accessibility, and Acceptance of Animal-Free Antibodies
B42	#298	Jason Szeto	Selection of ligands using an in vitro platform to support vaccine antigen characterization
B43	#674	Guillermo Gomez	Rapid and efficient processing and long-term cryopreservation of brain tumour resected tissue for the culture of brain tumour explant organoids to replace animal models in brain cancer research.
B44	#703	Ewelina Hoffman	Longitudinal characterisation of TK6 cells sequentially adapted to animal product-free, chemically defined culture medium: considerations for genotoxicity studies.
B45	#401	Lohanna Luciyarla Kakuda	HaCaT and human fibroblasts spheroids: Strategies to reduce the FBS at cell culture
B46	#164	Rachael Moses	Development of a 3D human chronic wound model using animal-free products.
B47	#485	Shiho Oeda	FBS-free conditions for cell-based assay: an in vitro Skin Sensitization test (OECD TG No. 442D)
B48	#759	Carolina Motter Catarino	Animal-free cell culture: toward humanized skin model
B49	#824	Carolina Motter Catarino	Sens-ocular model: Cell-based assay to evaluate eye stinging potential os cosmetic formulations
B50	#218	Lorena Neves	Non-animal antibodies in New Approach Methodologies implementation
B51	#460	Lorena Neves	System animal components-free for application in in vitro test toxicology
B52	#461	Toshiyuki Ohtake	FBS-free conditions for cytotoxicity-based assays: an in vitro eye irritation test (OECD TG No. 491) and acute oral toxicity test (OECD GD No. 129)
B53	#647	Tom Pietrobelli	Rapid and Reproducible Generation of Novel Cell Lines
B54	#608	Inska Reichstein	Animal-free in vitro assessment of endocrine effects including phase-1 metabolism
B55	#275	John Gordon	Validation of the Electrophilic Allergen Screening Assay (EASA)
B56	#649	Michael Connolly	Acutox: an animal product-free assay for predicting acute oral toxicity
B57	#67	Esther Wenzel	Multiclonaals(TM) and beyond: the power of animal-free antibodies
B58	#62	Emma Arnesdotter	Inhalation Toxicity Mechanisms of Legacy and Next-Generation Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)
B59	#548	Cristiane Caldeira	Monocyte Activation Test (MAT) as a Tool to Assess the Indoor Air Quality (IAQ) in Laboratory Areas
B60	#738	Sven Cleaves	A 3D human cell-based in vitro model for chronic Pseudomonas aeruginosa lung infection

B61	#47	Song Huang	Development of fully primary human 3D alveolar model (AlveolAir™)
B62	#48	Song Huang	Novel fully primary human airway epithelium-alveolar macrophages in vitro co-cultures models to study host pathogen interactions
B63	#133	Rodrigo De Vecchi	Phtalox Hand Sanitizer Cream Antiviral Action against Sars-Cov 2
B64	#197	Arno Gutleb	Review of Complex in vitro Models Representing the Pulmonary System
B65	#505	Valerie Beneke	Patient-derived lung tissue represents an alternative model for the development of anti-fibrotic drugs
B66	#219	Seolyeong Kim	Development of a new reconstituted human airway model to assess inhalation toxicity
B67	#744	Helena Obernolte	Efficacy of bacterial lysate OM-85 in RV1b-infected murine lung tissue slices
B68	#733	Nina Hobi	A lung-on-chip platform to assess in vitro safety and toxicology with physiologically relevant outcomes
B69	#281	Sreyoshee Sengupta	Combining in silico and in vitro tools for assessing inhalation hazard of sodium dodecyl sulphate aerosols.
B70	#87	Tommaso Serchi	An improved ALI exposure chamber for higher deposition efficiency and optimized operations
B71	#541	Katherina Sewald	Evaluation of antiviral treatment and host immune response during parainfluenza 3 virus (hPIV-3) infection in human precision-cut lung slices
B72	#605	Patrudu Makena	An AOP for Oxidative Stress in Plaque Formation
B73	#823	Gilbert Schönfelder	A microphysiological system for studying human bone biology under simultaneous controlled oxygen tension and mechanical loading
B74	#833	Cyrille Krul	Vital human tissue as an innovative approach to move towards human-based science without animal research
B75	#171	Reyk Horland	HUMIMIC–InHALES: A Human-Relevant Aerosol Test Platform for Systemic Exposure Studies

Mon., Aug. 28 Refinement and Impact on Science

Poster board no.	Abstract no.	Presenting author	Abstract title
C1	#626	Rene Tolba	All for one: The research consortium FOR2591 aims at evidence based assessment of wellbeing - a path towards effective refinement in animal based research
C2	#339	Jakob Brandstetter	Animal welfare assessment and early humane endpoint determination in animal models for pancreatic cancer
C3	#336	Verena Buchecker	Evidence-based severity assessment in epilepsy models as a basis for refinement?
C4	#537	Renée Girbig	Assessment of postoperative pain in rats under analgesia with PET imaging
C5	#116	Emily Leitner	Non-invasive methods for the assessment of animal welfare while testing an immunomodulatory drug
C6	#563	Anne Stephanie Mallien	Group versus individual housing in male and female laboratory mice: a multicenter study reveals only subtle differences in severity
C7	#499	Christine Häger	Validation of clinical scoring and home-cage monitoring in a mouse model of acute colitis
C8	#518	Christine Häger	Improved post-operative pain and welfare assessment in sheep
C9	#618	Alina L. Ottlewski	Evaluation of running wheel behavior as a reliable marker for severity assessment and humane endpoint detection in a rat model with intracranial tumor
C10	#351	Vanessa Philippi	Refinement of pain management: multimodal analgesia for neurosurgical approaches in mice
C11	#447	Tim Schreiber	Efficient pain relief: Refinement of analgesia for transmitter implantation in mice
C12	#130	Benjamin Schulz	Sex matters: Insights from a syngeneic orthotopic model of metastasized pancreatic cancer
C13	#665	Sara Wells	Waste not, Want not
C14	#333	Dietmar Zechner	Severity assessment of bile duct ligation models
C15	#362	Julia Menon	Systematic Reviews of Animal Studies: the Positive Impact on Research
C16	#224	Andre Bleich	Quantifying Animal-to-Human Translation and Comparing them Across Medical Fields
C17	#253	Ebba Jennolf	Swedish acclimatization guidelines for rats and mice
C18	#252	Ebba Jennolf	A standardized score sheet template for assessing rodent health
C19	#146	Francesca Di Domenico	Refinement: The impact of peri-operative analgesia on neuropharmacological outcomes in rodent models of chronic pain
C20	#332	Simone Kumstel	Non-invasive methods for early humane endpoint determination in a mouse model for colorectal cancer
C21	#720	Laura Lockwood	Reduce Rodent Pain and Refine Study Protocols with Non-Invasive Genotyping
C22	#706	Eryn Slankster-Schmierer	Animal Use and Opportunities for Reduction in Carcinogenicity Studies for Pharmaceuticals
C23	#149	Aileen MacLellan	A Spoon Full of Sugar? Refining Mouse Housing and Experimental Procedures With the Help of Rewarding Treats
C24	#3	Kati Bertrand	The Effects of Individual Housing on Nonhuman Primates: A Review
C25	#251	Jennifer Davies	Effects of different home cage enrichment on group housed male mice.
C26	#108	Brianna Gaskill	Extended-Release Buprenorphine in A Murine Model of Acute Kidney Injury
C27	#82	Brianna Gaskill	Environmental thermal refinement and its impact on energy efficiency and cholesterol in mice
C28	#57	Klena Sarges Marruaz da Silva	MiceAId: using the AI to help identification of pup's gender
C29	#207	Jessica Cait	Does good welfare make good science? How rodent housing impacts research results.

C30	#544	Elin Törnqvist	Refinement by gentle handling of mice affects pharmacokinetic end points
C31	#799	Marion Bankstahl	Comparative subcutaneous pharmacokinetics and tolerability of standard analgesics in mice and rats
C32	#803	Alexandre Widmer	Implementation of clip-on tunnels for enrichment and gentle-handling in all cages of a medium-sized animal facility.

Tues., Aug 29 Regulatory Acceptance and Global Harmonization

Poster board no.	Abstract no.	Presenting author	Abstract title
A1	#293	Kimberly To	Using NAMs to Address Variability and Susceptibility Across Populations
A2	#308	María Laura Gutiérrez	Implementation of alternative methods in Argentina to evaluate skin and ocular irritation of cosmetics products
A3	#394	María Laura Gutiérrez	Acute Oral Toxicity Assessment of Pesticides
A4	#13	María Laura Gutiérrez	Eye damage reversibility in an in vitro model of bovine cornea to replace the Draize test completely.
A5	#730	Bianca Marigliani	Brazil approaches the cosmetics animal testing ban: the argument for a federal bill
A6	#415	Sandra Coecke	Knowledge from human relevant cell, tissue and mathematics-based Methods as key tools for understanding Covid-19
A7	#360	Carl Westmoreland	An exposure-led approach to worker safety assessment of sodium 2-hydroxyethane sulphonate using New Approach Methodologies
A8	#494	Anne Kienhuis	Acceptance of NAMs in Safety Assessment: Innovation Science meets Toxicology
A9	#557	Anne Kienhuis	Age and gender specific safety: thyroid-mediated developmental neurotoxicity
A10	#509	Cyrille Krul	Going the extra mile for NAM acceptance; Engaging stakeholders for next generation risk assessment
A11	#302	Agnus Karmaus	Variability of In Vivo Toxicology Studies: Impact on NAMs
A12	#41	Christian Pellevoisin	From scientific validation to regulatory acceptance in medical devices: importance of ISO standardization
A13	#643	Kristina Bartmann	Assessment of human neural network formation and function using 2D and 3D hiPSC-derived cell systems
A14	#243	Amanda Ulrey	Incorporating GIVIMP Recommendations into Method Development, Use, and Transfer
A15	#88	Amanda Ulrey	Ensuring the Quality of a Test System Using the Principles of Good In Vitro Method Practices (GIVIMP): A Case Study of Cryopreserved Human Precision-cut Lung Slices
A16	#831	Miriam Jacobs	Chemically-induced metabolic disruption: Selection of chemicals for in vitro human PPAR α , PPAR γ , and adipogenesis test method development
A17	#204	Brianna Jackson	Utility of Developmental Neurotoxicity In Vitro Battery to Address Regulatory Challenges
A18	#784	Alan Kim	Synaptogenesis Assay for Developmental Neurotoxicity Testing in a Human 3D Brain Model
A19	#639	Jördis Klose	Developmental neurotoxicity in vitro assays applied for molecular initiation and key event identification to create an AOP network related to cognitive function defects
A20	#434	Els Adriaens	Development of a Defined Approach for Eye hazard identification of surfactants according to the three UN GHS categories
A21	#488	Nathalie Alépée	Development of a Defined Approach for Eye hazard identification of neat solids according to the three UN GHS categories
A22	#304	Luciene Balottin	Proficiency testing of in vitro methods
A23	#271	Rodrigo De Vecchi	Reconstructed Human Epidermis: IVPT to compare topical products
A24	#25	Karen Huber	A roadmap for regulatory implementation of in vitro models for evaluation of vaccine efficacy
A25	#193	Amy Meloche	Determining Regulatory Endpoints for an Agrochemical Without Bioassays
A26	#438	Lorena Neves	Uncertainty measurement of Cytotoxicity Index using OECD Document 129
A27	#199	Tom Roos	A Systematic Review on Pollutant Induced Cardiotoxicity: Providing a Toxicological Foundation for NAM Development and Regulatory Acceptance
A28	#118	Raja Settivari	Establishing scientific confidence and application of NAMs for plant protection product development and regulatory registration

A29	#211	Mieke Van Mulders	Building trust in New Approach Methodologies via the RE-Place project
A30	#560	Fiona Sewell	Re-evaluating the need for chronic toxicity studies with therapeutic monoclonal antibodies, using a weight of evidence approach
A31	#443	Fiona Sewell	New data supporting recognition of evident toxicity in acute oral toxicity studies (OECD TG 420)
A32	#15	Andrew Rowan	Reducing and Replacing Laboratory Animal Use in US and UK Laboratories
A33	#230	Marco Corvaro	GARD™: a study to investigate the applicability domain for agrochemical formulations.
A34	#75	Gina Hilton	Mapping a new paradigm for agrochemical carcinogenicity assessment
A35	#335	Susanne Kolle	Not quite there: BASF's experience in replacing the six pack toxicity tests for agrochemical formulations
A36	#272	Anna van der Zalm	Defined Approaches for EPA Categorization Assessing Eye Irritation Potential of Agrochemical Formulations
A37	#399	Allen Burgenson	Sustainable Pyrogen Testing: Alternatives to Compendial Assays Using Animals
A38	#374	Emmanuelle Coppens	Demonstration of suitability of in vitro antigenicity assay for potency testing of human vaccines
A39	#250	Lukas Focke	Analysis of Pyrogen Conatmination using Assay Ready THP-1 derived Macrophages
A40	#143	Shahjahan Shaid	Overcoming the industrialization challenges for in vitro absence of toxin testing in tetanus vaccines
A41	#145	Charline Hoebreck	Assessment of animal-free methods to substitute in vivo potency assays for DTaP vaccines
A42	#148	Anthony Holmes	Bringing quality control and batch release testing of biologicals into the 21st century
A43	#237	Kathryn Matthews	Use of the In Vitro Monocyte-Activation Test (MAT) for Vaccine Products that Are Inherently Pyrogenic
A44	#264	Jessica Ponder	Fever Pitch: Restoring Global Harmonization of Bacterial Endotoxins Testing
A45	#603	Katrin Schutte	The future of pyrogenicity testing: phasing out the rabbit pyrogen test
A46	#89	Jason Szeto	Removing the mouse from the house: An ELISA method to replace mouse-based potency testing for pertactin antigen
A47	#96	Maxime Vermeulen	A Novel Multiplex Immunoassay for Animal-free Quality Control of DTaP Vaccines
A48	#816	Maryam Amini	An indirect ELISA Assay for Evaluation of Antibody Response in Rabbits Vaccinated with Inactivated Enterotoxemia Vaccine
A49	#819	Anahita Emadi	Development And Validation of An In Vitro Replacement Assay for Enterotoxemia Vaccine Potency Test

Tues., Aug 29 Next-Gen Education

Poster board no.	Abstract no.	Presenting author	Abstract title
D1	#510	Ebba Jennolf	Today's students are tomorrow's researchers
D2	#555	Jan-Bas Prins	Improving the use of human tissue and cells within research and education to reduce animal experiments
D3	#109	Caroline Rainsford	Be Brave to Advance Alternatives: A Trade Association's Role in NAMs Promotion and Education
D4	#393	Eryn Slankster-Schmierer	NURA offers free training to advance New Approach Methodologies in toxicological assessment.
D5	#86	Ivo Tiebosch	Training Assessors on Establishing Competency of Staff using Animals for Scientific Purposes
D6	#419	Jie-Long He	Developing a laboratory mouse animal center in the metaverse- the preliminary practice of visually immersive alternatives to animal testing
D7	#652	Nicole Linklater	3R-SMART: an education and information platform to help reduce animal testing
D8	#100	Klena Sarges Marruaz da Silva	Animal Cranio Kit: a simulator to replace rats in craniotomy training
D9	#81	Maria Pilar Vinardell	Introducing the 3Rs concept in Higher Education: Experiences in the Universitat de Barcelona
D10	#621	Rodrigo De Vecchi	Training and Implementation of a Reconstructed Human Epidermis (RHE) Model to Evaluate Skin Irritation in Argentina
D11	#469	Nuno Henrique Franco	Education and training in laboratory animal science and the 3Rs - the contribution of ETPLAS free courses
D12	#142	Jennifer Meier	How to Train the Trainer: Influence of Education on Positive Reinforcement Training
D13	#217	Judy Murray	Building a sustainable Compassion Science Program across multiple countries and cultures
D14	#546	Rebecca Ram	Communicating with the general public about the science of animal research
D15	#597	Debby Weijers	ReplacEd-How we educate on the use of non-animal methods as an animal welfare organisation
D16	#299	Giulia Panzarella	Using ontologies to organize textual resources in life sciences for their integration into in silico and in vitro science
D17	#820	Wendy Williams	Using Affordable Inanimate Tools to Enhance Hands-on Training

Tues., Aug 29 Ethics, Welfare, Policies, and Regulations

Poster board no.	Abstract no.	Presenting author	Abstract title
E1	#598	Karin Schmelz	Five years of 3R research funding: measuring the impact
E2	#444	Susana Gomez	French Center for 3Rs : reaching scientists
E3	#519	Jeffrey Bajramovic	The 3Rs Centre Utrecht: facilitating behavioral change by researchers
E4	#516	Jeffrey Bajramovic	NAMs: Target Image Immunology
E5	#636	Young-Su Yang	Management of Hand Bites in Nonhuman Primate Studies
E6	#99	Julia Bartlett	The 3Hs - A Holistic Approach to Refinement
E7	#538	Gilbert Schönfelder	All animals count – emergence of surplus animals has to be reduced globally
E8	#40	Thomas Bertelsen	Culture of Care - what does it look like at Novo Nordisk
E9	#321	Monica Engebretson	Is “Release” becoming another R? An overview of US laboratory adoption laws and legislation.
E10	#522	Jan-Bas Prins	Prioritizing in the replacement of animal models
E11	#135	Andrew Fenton	A bioethical engagement with the CCAC revised ethics document
E12	#395	Laura Alvarez	Reducing and replacing animal experiments: Europe needs a targets-based action plan
E13	#396	Laura Alvarez	The RAT list: a tool for highlighting areas of animal use ready for replacement
E14	#398	Laura Alvarez	Staying on track: chemicals regulation and a roadmap for phasing-out animal testing
E15	#296	Sandra Coecke	A Pragmatic Framework for the Application of New Approach Methodologies in One Health Toxicological Risk Assessment
E16	#159	Daniela Medina	Current state policy of animal testing in cosmetics in Latin America
E17	#789	Christoph Milewski	The organ-on-a-chip: a new technology for preclinical trials
E18	#693	Katherine Groff	Developing quantitative metrics for accountability in strategic roadmaps
E19	#607	Matthias Herzler	NGRARoute: a PARC roadmap for implementing Next Generation Risk Assessment (NGRA) in EU chemicals legislation
E20	#662	Angela Hvitved	Funding as a Strategy: the role of private funding in growing the community around non-animal methods
E21	#141	Martijn Nolte	Obstacles, Solutions & Recommendations: A knowledge agenda for the transition towards animal-free science
E22	#483	Octavio Presgrave	The Latin American Congress on Alternative Methods (COLAMA): Bringing Latin America to Alternative Methods' World
E23	#400	Emily Anderson	Engaging Congress to Influence Agencies: A Laser-Focus on Appropriations Legislation
E24	#334	Emma Persson	A Swedish strategy to replace animal experimentation
E25	#535	Lotte Martoft	The Swedish 3Rs Center – five years of focus on the 3 Rs
E26	#417	Katherine Roe	Fractured Oversight of U.S. Labs: Where's the Accountability?
E27	#790	Miriam Jacobs	OECD workshop consensus report: Ethical considerations with the use of human serum in OECD Test Guidelines
E28	#255	Kimberley Jayne	Guidance for reviewing projects involving the use of the forced swim test
E29	#534	Valeska Stephan	Counting down – What do animal statistics tell us about the 3Rs and animal welfare in research?
E30	#528	Valeska Stephan	The 3Rs Principle and the Validity of Scientific Research – a guideline by the Permanent Senate Commission on Animal Protection and Experimentation of the German Research Foundation
E31	#406	Ryan Merkley	Analysis of Research Animal Numbers at U.S. Government-Funded Laboratories
E32	#4	Mikalah Singer	Better Science, Fewer Animals: Catalyzing NIH grant-making to improve biomedical research and meet societal goals

E33	#364	Jessie Carder	Opportunities for Encouraging the Consideration of Alternative Methods
E34	#378	Liz White	Between the Idea and the Reality: A Critical Review of the Canadian Council on Animal Care
E35	#530	Giorgia Pallocca	On the Usefulness of Animals as a Model System: a Rational Framework to address an Emotional Discussion
E36	#297	Emma Persson	Target group specific efforts to facilitate replacement of animal experimentation
E37	#71	Jessica Ponder	Sharp Increases in US Animal Research Post-COVID

Wed., Aug. 30 21st Century Predictive Toxicology

Poster board no.	Abstract no.	Presenting author	Abstract title
F1	#668	Niladri Basu	Towards establishing a microplate-based, transcriptomics assay for rainbow trout hatchlings
F2	#666	Sophie Emberley-Korkmaz	Cytotoxic and transcriptomic effects of pesticides on RTgill-W1 cells as an alternative approach for acute toxicity testing
F3	#702	Sophie Emberley-Korkmaz	Cytotoxicity of pesticides exposed to rainbow trout gill, liver, and intestinal cell lines
F4	#506	Soon Seok Kim	Molecular mechanisms based on liver toxicity of Metyrapone toward zebrafish
F5	#439	Maria da Graça Landim Bravo	Evaluation of Peptide-Mycophenolic Acid conjugates as new candidates for UV-filters
F6	#353	Cynthia Pestana	Evaluating fish acute toxicity of nanoparticles by a modified version of the OECD Test Guideline 249
F7	#404	Cynthia Pestana	The Use of Liver and Embryo Zebrafish Cell Lines (ZFL and ZEM2S) as Alternative Methods to Fish Acute Toxicity and Fish Embryo Toxicity Tests
F8	#409	Cynthia Pestana	Evaluating the potential of 4- Octylphenol in damaging DNA and causing epigenetic changes by New Approach Methodologies
F9	#354	Cynthia Pestana	Skin irritation of nanoparticles using a reconstructed human epidermis
F10	#407	Cynthia Pestana	Evaluating the skin sensitization potential of two endocrine-disrupting chemicals using in silico-in vitro test approach
F11	#437	Cynthia Pestana	In silico-in vitro dermal toxicity evaluation of the flame retardant Aluminum Diethylphosphinate
F12	#637	Sangwoo Lee	Neurotoxicity effects of bifenthrin by zebrafish embryo model
F13	#578	Kristina Schirmer	Acute Fish Cell Toxicity Testing in Real-Time with the RAINBOWflow CHIP Biosensor
F14	#428	Maria Bravo	Safety and efficacy of new UV-filters candidates based on marine compounds
F15	#190	Jean-Philippe Marden	Dynamic Models Replace Animals to Study Long-Term Effect of Additives on Rumen Fermentation
F16	#191	Jean-Philippe Marden	Alternative Models to Better Understand Ruminant Digestive Physiology
F17	#781	Krittika Mittal	Advancing an ultraplexed RNA sequencing platform for high throughput gene expression analysis in ecotoxicology
F18	#386	Laura Van Raalte	An Avian 3D Spheroid Hepatic Cell Assay for Monitoring Bioactivity Related to Naphthenic Acid Contamination in Wetlands Near Tailings Ponds in the Athabasca Oil Sands Region
F19	#617	Ying-Jan Wang	Exploring the Predictability of Tiered Alternative tests in Fish Acute Toxicity
F20	#754	Alessandro Sangion	Tiered methods for bioaccumulation assessment to reduce animal testing
F21	#750	Alessandro Sangion	Extrapolation of in vitro bioactivity and toxicity data to relevant human exposures
F22	#752	Alessandro Sangion	Addressing applicability domain and uncertainty in high throughput toxicokinetic data and applications
F23	#504	Donggon Yoo	Advanced visualization using a transgenic zebrafish for Pyrethroid Insecticides 's Neurotoxicity.
F24	#178	Alexandre Borrel	Applying In Silico Toxicity Models Across the Tox21 Chemical Universe
F25	#177	Alexandre Borrel	ChemMaps.com V2 - Exploring the Environmental Chemical Universe
F26	#682	Alexander Dimitrios Kalian	Dimensionality Reduction Algorithms for Hybrid QSAR Models of Mutagenicity
F27	#497	Anne Kienhuis	Virtual Human Platform for Safety Assessment (VHP4Safety)
F28	#507	Anne Kienhuis	Life Course Pesticide Exposure and Parkinson's Disease: Innovative Animal-Free Assessment of Chemical Effects on Neurodegeneration

F29	#551	Bob van de Water	Human-induced pluripotent stem cell reporters for high-content screening of stress response activation identifying target organ-specific toxicities
F30	#562	Bob van de Water	The inter-individual toxicodynamic variability of cellular stress response transcriptomic perturbations upon chemical exposure
F31	#50	Tamara Vanhaecke	An updated adverse outcome pathway network for chemical-induced liver steatosis
F32	#7	Mathieu Vinken	Applying machine-learning approaches to identify key genes associated with drug-induced cholestasis
F33	#8	Mathieu Vinken	Update and optimization of an adverse outcome pathway network of chemical-induced cholestasis
F34	#262	Daniel Carvalho	Thyroid Organoid-on-a-Chip Batteries for Screening Endocrine Disruption
F35	#765	Emely Rosenow	Mechanical stress affects the metabolism of human fibroblasts and contributes to synovial fibrosis
F36	#18	Melissa Ganzerla	Comparison of In vitro oral and topic absorption toxicity of BPA and BPS using 3D cell cultures and microfluidic systems.
F37	#79	Sue Gibbs	Engineering Metabolically Active Reconstructed Human Skin for Organ-on-Chip
F38	#138	Michelle Jäschke	Towards a proximal tubule microphysiological system for antisense oligonucleotide safety testing
F39	#288	Yasunari Kanda	Predictive toxicology using human iPSC cells
F40	#286	Anna Kip	A human thyroid-on-a-chip to test thyroid disruption
F41	#31	Anna-Catharina Krebs	Immune-competent human (multi)organ-on-chips
F42	#758	Christopher Long	Pharmacokinetic / Pharmacodynamic Modeling of Microphysiological Human-on-a-Chip Systems to Reduce Pharmaceutical Animal Testing
F43	#42	Patricia Santos Lopes	Adipocyte spheroids and endothelial rings to evaluate lipogenic or antilipogenic natural ingredients
F44	#728	Tamara Meijer	Application of human iPSC-derived proximal tubular-like cells for transport studies
F45	#732	Nina Hobi	A new Barrier-on-Chip system for one-fits-all organ modelling: the example of the gut
F46	#128	Masataku Okamura	In vitro Stinging Test using 3D Skin Model, hiPSC-derived Sensory Neurons, and Microelectrode Arrays (MEA)
F47	#431	Eunsu Song	Acute toxicity and wound healing effect of Xanthium strumarium L. fruit using animal alternative testing
F48	#350	Federico Vozzi	The Alternative cardiac in vitro system: role of the biomechanical structure and cell composition in the modulation of toxicity response
F49	#376	Matthew Burbank	Progress in predicting teratogenic potential 10 years after the EU animal testing ban
F50	#370	Matthew Burbank	How the analysis of target organs in cosmetics could prioritize the NAMs development ?
F51	#767	Jory Curry	Integrated Multi-Technique Chemical Hazard Screening: A Novel New Approach Method Using the Zebrafish (Danio rerio) Larvae Model and Transcriptomics
F52	#574	Victoria de Leeuw	Mechanisms of metal exposure on neuronal differentiation in the human neural progenitor test
F53	#539	Sebastian Hoffmann	The GOLIATH project on Metabolism Disrupting Compounds: test methods assessment
F54	#268	Amer Jamalpoor	Teratogenicity Assessment of Antimalarials Early in Drug Development Using the ReproTracker Assay
F55	#503	Woo Keun Kim	Developmental neurotoxicity induced by glutaraldehyde in neuron/astrocytic co-cultured cells and zebrafish
F56	#311	Nicole Kleinstreuer	Establishing Confidence in NAMs for Developmental and Reproductive Toxicity
F57	#734	Jessica Palmer	Qualification of the devTOX quickPredict Assay for Regulatory Use Under the ICH S5(R3) Guidelines
F58	#761	Sudip Mondal	A new approach methodology for predictive DART with a C. elegans-based assay
F59	#580	Matthew Linakis	Comparison of Points of Departure in Development of an In Vitro to In Vivo Developmental Toxicant Identification Workflow

F60	#689	Stefano Lorenzetti	Endocrine-dependent, cell-specific, functional biomarkers of clinical relevance as cross cutting tools in in vitro toxicology: an effect-based approach to endocrine disruption
F61	#168	Kashu Mizota	Developmental Toxicity Test by Long-term Signal Disruption Observation Using Human iPS Cells
F62	#17	Chander Kant Negi	Investigating metabolic and reproductive disruption induced by novel flame retardants using an in vitro human 3D cell culture models
F63	#735	Gargi Bhattacharyya	Cell-based reporter assays for nuclear receptors as predictive tools in reproductive and developmental toxicology
F64	#267	Elena von Coburg	Enhancing the E-Morph Assay for phenotypic screening of endocrine disrupting chemicals
F65	#748	Callum Christ	Determining the Impact of Metal Oxide Nanoparticle Size and Solubility on Lung Epithelial Cell Toxicity
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F66	#486	Christopher Hughes	Reconstructed human intestinal comet assay, an alternative in vitro model for genotoxicity assessment
F67	#429	Thais Y. T. Fuzinaga	Photomutagenic potential of UV filters and insect repellents by using photo-RSMN assay
F68	#341	Jean-Pierre Valentin	Development and Deployment of Computational Tools in Drug Discovery
F69	#678	Jean-Pierre Valentin	Evolving role of investigative toxicology in the pharmaceutical industry
F70	#575	Xiaoqing Chang	Using In Vitro Data and PBPK Models to Predict Inhalation Toxicity
F71	#657	Shagun Krishna	Risk-Based, Geospatially Informed Prioritization of Potentially Cardiotoxic Chemicals
F72	#325	Pinpin Lin	Establishment of a physiologically based pharmacokinetic modeling for benzene exposure assessment in children population
F73	#200	Tom Roos	Development of a Physiologically-Based Kinetic Model as part of a New Approach Methodology for Non-Animal Cardiotoxicity Testing
F74	#180	Aswani Unnikrishnan	Expanding PBPK Modeling to Predict Chemical Distribution in Brain and Adipose Tissues
F75	#492	Nathalie Alépée	SkinEthic™ HCE Time-to-Toxicity OECD adopted method as an alternate of the in vivo standard for surfactants?
F76	#493	Nathalie Alépée	Ocular assessment of challenging chemicals using the OECD TG492B SkinEthic™ HCE Time-to-Toxicity adopted method
F77	#490	Nathalie Alépée	Prediction of the skin sensitisation potential of vanillin using read-across in NGRA
F78	#697	Lenya de Brouwer	Mechanisms of tacrolimus-induced nephrotoxicity in proximal tubular-like cells
F79	#189	Antonio Anax Falcao de Oliveira	Leveraging AOPs to enhance decision making on chemical safety across all stages of the development pipeline
F80	#498	Andy Forreryd	Characterization of respiratory sensitizing properties of the protein Subtilisin, using GARDair.
F81	#55	Andy Forreryd	Expanding the applicability domain of NAMs for skin sensitization testing: a case study using GARDskin for assessment of metals.
F82	#124	Tais Gratieri	Ophthalmic: an innovative in vitro test for ophthalmic drug products screening
F83	#484	Hyoung-Yun Han	Analysis of QSAR and antioxidant gene expression for molecular mechanisms based herbal medicine-related hepatotoxicity
F84	#266	Peter Hooton	Galleria mellonella as an alternative model to study biodefense pathogens
F85	#165	Seolyeong Kim	The Assessment of Phototoxicity using the Reconstructed Human pidermis, KeraSkin™: An In vitro Evaluation of the Phototoxic Possibility of Chemicals
F86	#125	NamHee Kang	Development of in vitro phototoxicity test method using Reconstructed Human Epidermis (KeraSkin™)
F87	#472	Agnes Karmaus	Insights from Profiling Transcription Factor Transactivation with CYP450 Metabolism Integration
F88	#644	Karolina Jagielło	Web-based application for gathering knowledge about nano-specific NAMs in human safety assessment.
F89	#344	Maria Pilar Vinardell	Assessing Photosensitization of Chemicals Using an in vitro Approach

F90	#579	Tomasz Puzyn	In silico NAMs for nanomaterials: Where have you been, where are you going to?
F91	#160	Samuel Richard	Developing a Physiologically Relevant Small Intestinal Model for Drug Assessment
F92	#495	Gorka Egiazu	Set up and validation of behavioral analysis for cannabinoids assessment in zebrafish
F93	#561	Marie Pier Scott-Boyer	Tissue-specific network analysis to predict the hepatotoxicity of chemicals
F94	#715	Emma Scuric	Molecular mechanisms of heavy metals in RPTEC/TERT1 cells and iPSC derived Proximal Tubule like-cells
F95	#112	Sandra Smieszek	Drug metabolism of CYP P450 substrates in dogs and humans: genetic perspective
F96	#751	Joanne Trgovcich	New Approaches to Classifying and Analyzing Literature for Mechanistic Information
F97	#549	Anja Wilmes	Application of iPSC derived hepatocytes, cardiomyocytes, endothelial cells, renal podocytes and proximal tubular cells for predicting mitochondrial toxicity
F98	#209	Takashi Yamada	An Adverse Outcome Pathway for Histone Deacetylase Inhibition Leading to Axial Skeletal Defects: Development and Potential to Improve Decision Support in Chemical Safety Assessment
F99	#491	Wei Zhang	Distress Analysis for Evaluating the Toxicity of Traditional Chinese Medicine
F100	#368	Liseth Diaz	Make my skin care trusted! How to reliably scale biological screening in cosmetics using multiomics approach
F101	#233	Hyojin Lee	High-throughput toxicity screening and transcriptomic analysis in embryonic zebrafish as a NAM for PFAS assessment
F102	#783	Alena Celsie	Two case studies: predicting dermal and inhalation exposure from mixtures
F103	#94	Christian Lotz	Impedance based prediction of eye irritation
F104	#731	Bianca Marigliani	Safety assessment of toys and school supplies in Brazil: moving away from animal testing
F105	#430	Kelley Carstens	How does stress modify chemical toxicity? A high-throughput in vitro screening approach
F106	#64	Rodrigo De Vecchi	Microfluidic model of innervated human skin
F107	#326	Md Zobaer Hasan	c-Src phosphorylation is a key molecular event in distinguishing between irritants and non irritants on human skin equivalent model
F108	#648	Josh Fredson	Development and validation of an in vitro assay to assess extra mild personal care formulations and the generation of an industry-relevant benchmarking database
F109	#645	Brian Palmer	Skin sensitization reactivity data in a Weight of Evidence risk assessment for Botanicals
F110	#773	Isabelle Lee	Deriving a Point of Departure for Skin Sensitization Risk Assessment of Fragrance Ingredients Based on OECD in vitro Methods
F111	#292	Kimberly To	Web Application to Predict Skin Sensitization Using Defined Approaches
F112	#568	Charles Modlin	How to assess the risk of chemicals causing skin sensitisation without using animals: the role that in silico tools play
F113	#545	Minseo Kwon	Evaluating Skin Irritancy of Cannabidiol: A Comparative Study with Reconstructed Human Epidermis Models
F114	#134	Stefan Pfuhler	Advances in the Use and Implementation of 3D human skin-model bases genotoxicity assays
F115	#284	Katherina Siewert	Closing the Gap for T Cell-Based Skin Sensitizer Prediction
F116	#276	Mattias Herzler	Evaluation of Skin Sensitization Classification Rules to Reflect Human Potency
F117	#260	Susanne Kolle	Plant Extracts, Polymers and New Approach Methods: Practical Experience with Skin Sensitization Assessment
F118	#827	José Mauro Granjeiro	Assessment of TiO ₂ NPs toxicity using a Reconstructed Human Epidermal Model
F119	#810	Enrica Bianchi	Mode of action of 4-hydroxyphenylpyruvate dioxygenase (HPPD) inhibitors: a new in vitro approach to replace in vivo measurement of tyrosinemia.
F120	#804	Bharath BR	Development of reliable 3D QSAR models for predicting human thyroid peroxidase inhibitors

F121	#805	Rahul Date	Prediction of the skin sensitization potential of phytochemicals using experimentally validated in-silico approach
F122	#800	Kevin Hogeveen	New Approach Methodologies for the hazard assessment of nanocellulose (NC): A Tiered Approach for the Evaluation of the Toxicity of NC Materials in Human Intestinal and Macrophage Models
F123	#815	Marcel Leist	From neurotoxicity/DNT screening to hit characterization
F124	#812	Ikuro Suzuki	Development of a method for detecting addictive compounds based on the electrical activity of human iPS cell-derived dopamine neurons
F125	#796	Kouichi Yoshinari	Read-across-based Prediction for the Non-genotoxic Carcinogenicity of Chemicals Using Molecular Descriptors and in vitro Assays
F126	#121	Victoria Hull	Integration of Technological Interference into Curated HTS Data